

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/552,747
Applicant: Jade D. Nelson, et al
Filed: October 11, 2005
Title: PROCESS FOR PREPARING 5-4-FLUOROPHENYL-1-[2-
2R,4R-4-HYDROXY-6-OXO-TETRAHYDRO-PYRAN-2-YL
ETHYL]-2-ISOPROPYL-4-PHENYL-1H-PYRROLE-3-
CARBOXYLIC ACID PHENYLAMIDE

TC/A.U.: TBD
Examiner: TBD

Docket No.: PC20548A

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d); within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application; before the mailing of the first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided except for issued United States patents or published patent applications.

Applicants bring attention of the Examiner the following pending applications:

<u>Inventor</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Atty. Docket No.</u>	<u>Pub. No.</u>
Jade D. Nelson, et al	10/635,317	08/06/2003	PC20549A	US Pat. 6,777,560
Jade D. Nelson, et al	10/863,899	06/08/2004	PC20549B	US 2004/0068121
Jade D. Nelson, et al	11/329,562	01/11/2006	PC20549C	US2004/0068121

The Examiner is requested to consider carefully the complete text of these references in connection with the examination of the above-identified application in accord with 37 C.F.R. §1.104(a) and any references cited therein.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. §1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

It is understood by the Applicants that this paper requires no fee; however, authorization is given to charge any necessary filing fees and any additional fees or credit any overpayment to Deposit Account 23-0455.

Respectfully submitted,

Dated: Feb. 8. 2006



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/552,747
Filing Date	October 11, 2005
First Named Inventor	Jade D. Nelson, et al
Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	PC20548A

Sheet 1 of 6

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,681,893	06-21-1987	Bruce D. Roth	
		US- 5,273,995	12-28-1993	Bruce D. Roth	
		US- 5,003,080	03-26-1991	Butler, et al	
		US- 5,097,045	03-17-1992	Butler, et al	
		US- 5,103,024	04-07-1992	Millar, et al	
		US- 5,124,482	06-23-1992	Butler, et al	
		US- 5,155,251	10-13-1992	Butler, et al	
		US- 5,216,174	06-01-1993	Butler, et al	
		US- 5,245,047	09-14-1993	Butler, et al	
		US- 5,248,793	09-28-1993	Butler, et al	
		US- 5,280,126	01-18-1994	Butler, et al	
		US- 5,397,792	03-14-1995	Butler, et al	
		US- 5,342,952	08-30-1994	Butler, et al	
		US- 5,298,627	03-29-1994	Butler, et al	
		US- 5,446,054	08-29-1995	Butler, et al	
		US- 5,470,981	11-28-1995	Butler, et al	
		US- 5,489,690	02-06-1996	Butler, et al	
		US- 5,489,691	02-06-1996	Butler, et al	
		US- 5,510,488	04-23-1996	Butler, et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 02/055519 A	07-18-2002	Warner-Lambert Co.		
		WO 01/28970 A	04-26-2001	Samsung Fine Chem.		

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SignatureDate
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2 of 6

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		Number-Kind Code ² (if known)			
		US- 5,998,633	12-07-1999	Jacks, et al	
		US- 6,087,511	07-11-2000	Lin, et al	
		US- 5,969,156	10-19-1999	Briggs, et al	
		US- 6,121,461	09-19-2000	Ann T. McKenzie	
		US- 6,476,235	11-05-2002	Butler, et al	
		US- 5,149,837	09-22-1992	Butler, et al	
		US- 6,777,560	08-17-2004	Nelson, et al	
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				Art Unit	TBD
				Examiner Name	TBD
Sheet	3	of	6	Attorney Docket Number	PC20548A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Saburi, et al, "Asymmetric Hydrogenation of 3,5-Dioxoesters Catalyzed by Ru-binap Complex: A Short Step Asymmetric Synthesis of 6-Substituted 5,6-dihydro-2-pyrones", Tetrahedron, Vol. 49(10), 1993, pp. 1997-2003.	
		Carpentier, et al, "One-Pot and Sequential Asymmetric Hydrogenation of beta, delta-Diketoesters into Functionalized 1,3-Diols: From anti- to syn-Stereoselectivity", Eur. J. Org. Chem., 1999, pp. 3421-3427.	
		Noyori, et al, "Asymmetric Transfer Hydrogenation Catalyzed by Chiral Ruthenium Complexes", Acc. Chem. Res., Vol. 30(2), 1997, pp. 97-102.	
		Palmer, et al, "Asymmetric transfer hydrogenation of C=O and C=N bonds", Tetrahedron: Asymmetry, Vol. 10(11), 1999, pp. 2045-2061.	
		Kinnaird, et al, "Strained Silacycles in Organic Synthesis: A New Reagent for the Enantioselective Allylation of Aldehydes" J. Am. Chem. Soc., Vol. 124, pp. 7920-7921, 2002, Published on the web 06/17/2002.	
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		Haruta, et al, "Chiral Allenylboronic Esters: A Practical Reagent for Enantioselective Carbon-Carbon Bond Formation", J. Am. Chem. Soc., 1982, Vol. 104, pp. 7667-7669.	
		Ikeda, et al, "Chiral Allenylboronic Esters as a Practical Reagent for Enantioselective Carbon-Carbon Bond Formation. Facile Synthesis of (-)-Ispenol", J. Am. Chem. Soc., 1986, Vol. 108, pp. 483-486.	
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		Fu, et al, "The Application of Catalytic Ring-Closing Olefin Metathesis to the Synthesis of Unsaturated Oxygen Heterocycles", J. Am. Chem. Soc., 1992, Vol. 114, pp. 5426-5427.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Schrock, et al, "Synthesis of Molybdenum Imido Alkylidene Complexes and Some Reactions Involving Acyclic Olefins", J. Am. Chem. Soc., 1990, Vol. 112, pp.3875-3886.	
		Bazan, et al, "Living Ring-Opening Metathesis Polymerization of 2,3-Difunctionalized Norbornadienes by Mo(CH-t-Bu)(N-2,6-C6H3-i-Pr2)(O-t-Bu)2", J. Am. Chem. Soc., 1990, Vol. 112, pp. 8378-8387.	
		Bazan, et al, "Living Ring-Opening Metathesis Polymerization of 2,3-Difunctionalized 7-Oxanorbornenes and 7-Oxanorbornadienes by Mo(CHCMe2R)(N-2-6-C6H3-i-Pr2)(O-t-Bu)2 and Mo(CHCMe2R)(N-2-6-C6H3-i-Pr2)(OCMe2CF3)2", J. Am. Chem. Soc., 1991, Vol. 113, pp. 6899-6907.	
		Huang, et al, "Olefin Metathesis-Active Ruthenium Complexes Bearing a Nucleophilic Carbene Ligand", J. Am. Chem. Soc., 1999, Vol. 121, pp. 2674-2678. Published on web 03/11/1999.	
		Ghosh, et al, "Enzymatic Acylation and Ring-Closing Olefin Metathesis: A Convenient Strategy for the Lactone Moiety of Compactin and Mevinolin", J. Org. Chem., 2000, Vol. 65, pp. 4779-4781. Published on web 07/06/2000.	
		Reddy, et al, "An Efficient Asymmetric Synthesis of Tarchonanthuslactone", J. Org. Chem., 2001, Vol. 66, pp. 2512-2514. Published on web 03/07/2001.	
		Greer, et al, "Phorboxazole synthetic studies: the C3-C15 bis-oxane segment", Tetrahedon Letters, Vol. 41, 2000, pp. 3801-3803.	
		Ghosh, et al, "An enantioselective synthesis of the C2-C16 segment of antitumor macrolide laulimalide", Tetrahedon Letters, Vol. 41, 2000, pp. 2319-2322.	
		Ghosh, et al, "A stereoselective synthesis of (+)-boronolide", Tetrahedon Letters, Vol. 41, 2000, pp. 1003-1006.	
		Ghosh, et al, "Ring-Closing Metathesis Strategy To Unsaturated Gamma and Delta-Lactones: Synthesis of Hydroxyethylene Isotere For Protease Inhibitors", Tetrahedon Letters, Vol. 39, 1998, pp. 4651-4654.	

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		Falomir, et al, "Stereoselective synthesis of spicigerolide", Tetrahedon Letters, Vol. 44, 2003, pp. 539-541.	
		Greer, et al, "Synthetic studies directed toward the phorbaxazoles: preparation of the C3-C15 bisoxane segment and two stereoisomers", Tetrahedon, Vol. 58, 2002, pp. 6009-6018.	
		Ramachandran, et al, "Asymmetric synthesis of goniothalamine, hexadecanolide, massoia lactone, and parasorbic acid via sequential allylboration-esterification ring-closing metathesis reactions", Tetrahedon Letters, Vol. 41, 2000, pp. 583-586.	
		Cossy, et al, "Synthesis of the C1-C12 Fragment of Fostriecin", Organic Letters, 2001, Vol. 3(14), pp. 2233-2235. Published on web 06/12/2001.	
		Morgan, et al, "In Situ Preparation of a Highly Active N-Heterocyclic Carbene-Coordinated Olefin Metathesis Catalyst", Org. Lett., 2000, Vol. 2(20), pp. 3153-3155. Published on web 09/07/2000.	
		Reddy, et al, "Asymmetric Synthesis of Umuravumbolide", Org. Lett., 2001 Vol. 3(1), pp.19-20. Published on web 12/16/2000.	
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		Ghosh, et al, "A stereoselective synthesis of(-)-tetrahydrolipstatin", Chem. Comm., 1999, pp. 1743-1744.	
		Ramachandran, et al, "An efficient enantioselective synthesis of argenti lactone", J. Indian Chem. Soc., Vol. 76, 1999, pp. 739-742.	
		Held, et al, "Enantioselective Synthesis of the Ricciocarpins A and B", Angew. Chem. Int. Ed., 2001, Vol. 40(6), pp. 1058-1060.	

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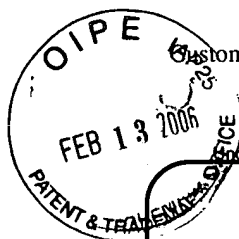
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		Grubbs, et al, "Recent Advances in Olefin Metathesis and Its Application in Organic Synthesis", Tetrahedon, Vo. 54, 1998, pp. 4413-4450.	
		US 2004/0068121	
		International Search Report for PCT/IB2004/001120.	
		International Search Report for PCT/IB03/03322.	

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**TRANSMITTAL
FORM**

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Art Unit TBD

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ENCLOSURES (Check all that apply)☐ Fee Transmittal Form☐ Fee Attached☐ Amendment/Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☒ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Reply to Missing Parts/
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Christine S. Lee

Date

February 8, 2006

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